

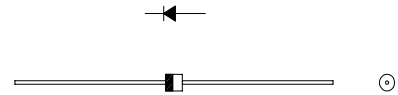
SBD Type : 11EQS09

OUTLINE DRAWING

構造 : ショットキ・バリア・ダイオード(SBD)
リード線型

Construction: Schottky Barrier Diode
Axial Lead Type

用途 : 高周波整流用
Application: High Frequency Rectification



最大定格 / Maximum Ratings

Approx Net Weight:0.17g

Rating	Symbol	11EQS09		Unit
くり返しピーク逆電圧 Repetitive Peak Reverse Voltage	V_{RRM}	90		V
平均整流電流 Average Rectified Output Current	I_O	1.0	Ta=30 *1 50Hz, 正弦半波通電抵抗負荷 Half Sine Wave Resistive Load	A
		1.0	Ta=55 *2	
実効順電流 RMS Forward Current	$I_{F(RMS)}$	1.57		A
サージ順電流 Surge Forward Current	I_{FSM}	40	50Hz, 正弦半波, 1サイクル, 非くり返し Half Sine Wave, 1cycle, Non-repetitive	A
動作接合温度範囲 Operating Junction Temperature Range	Tjw	- 40 ~ + 150		
保存温度範囲 Storage Temperature Range	Tstg	- 40 ~ + 150		

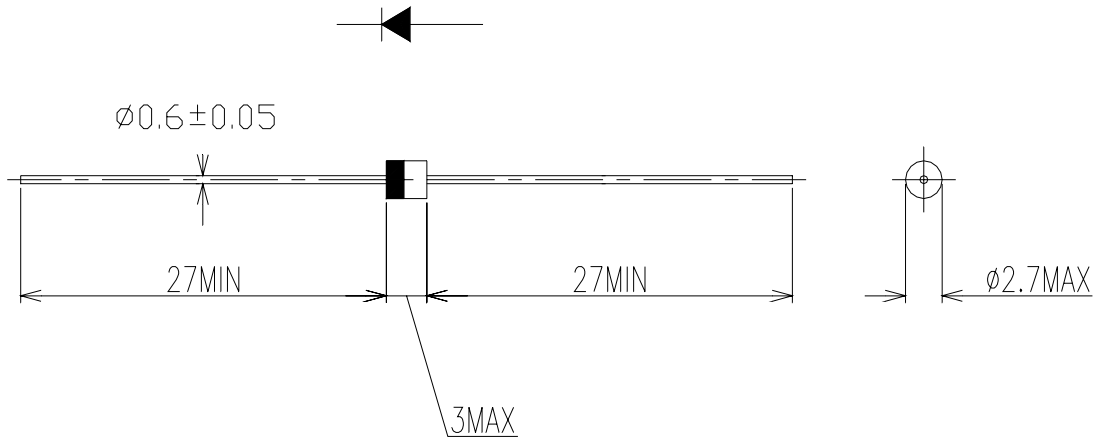
電氣的・熱的特性 / Electrical・Thermal Characteristics

Characteristics	Symbol	Conditions	Min	Typ	Max	Unit
ピーク逆電流 Peak Reverse Current	I_{RM}	Tj= 25 , $V_{RM} = V_{RRM}$	-	-	0.5	mA
ピーク順電圧 Peak Forward Voltage	V_{FM}	Tj= 25 , $I_{FM} = 1 A$	-	-	0.85	V
熱抵抗 Thermal Resistance	Rth(j-a)	接合部-周囲間 Junction to Ambient	-	-	単体フィン無し *1	140
					プリント基板実装 *2	110

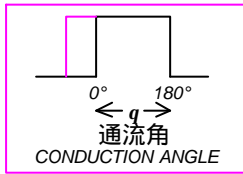
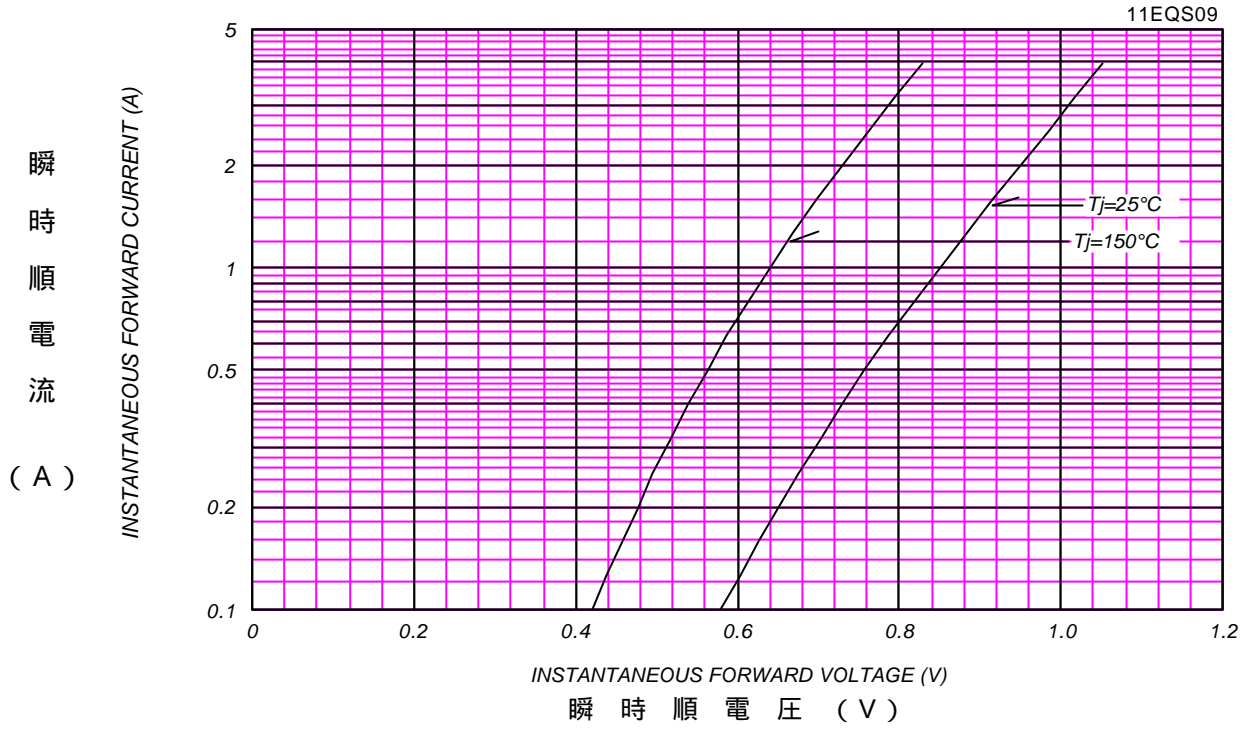
*1: 単体フィン無し / Without Fin or P.C.Board

*2: プリント基板実装 / P.C. Board Mounted(L=3mm, Print Lands = 5×5 mm, Both Sides)

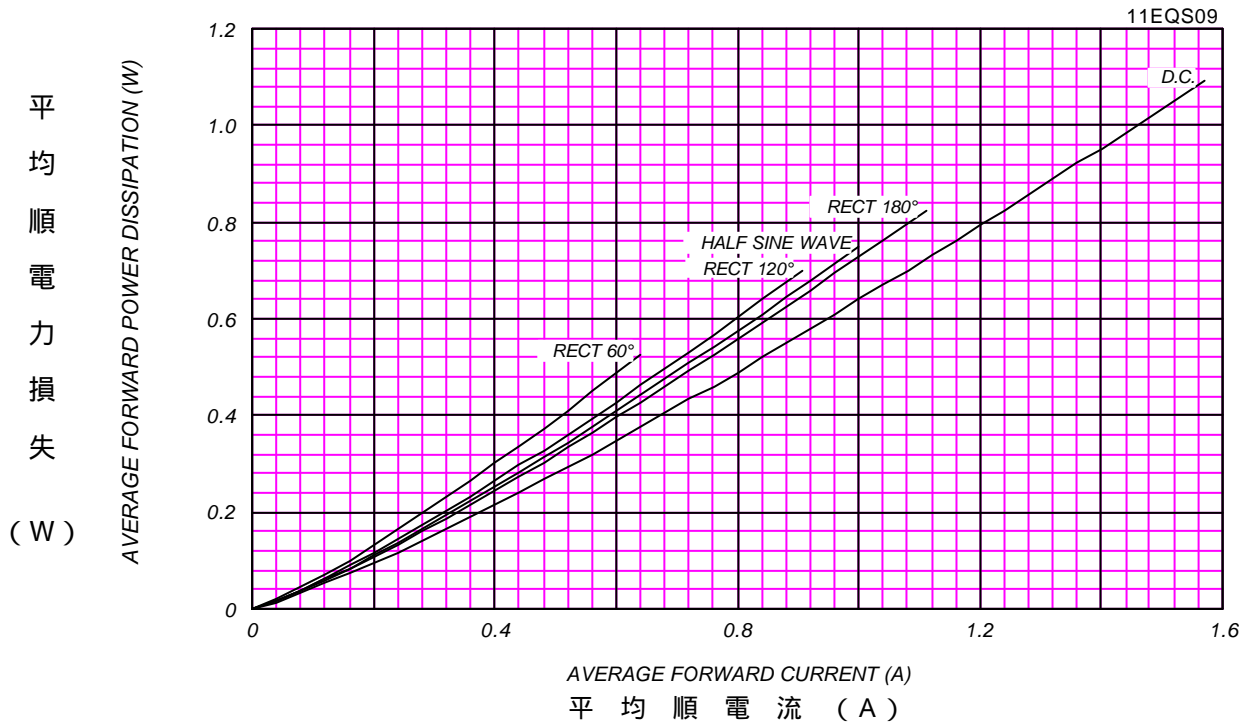
1 1 E Q S_外形図 (mm)



順電压特性
FORWARD CURRENT VS. VOLTAGE



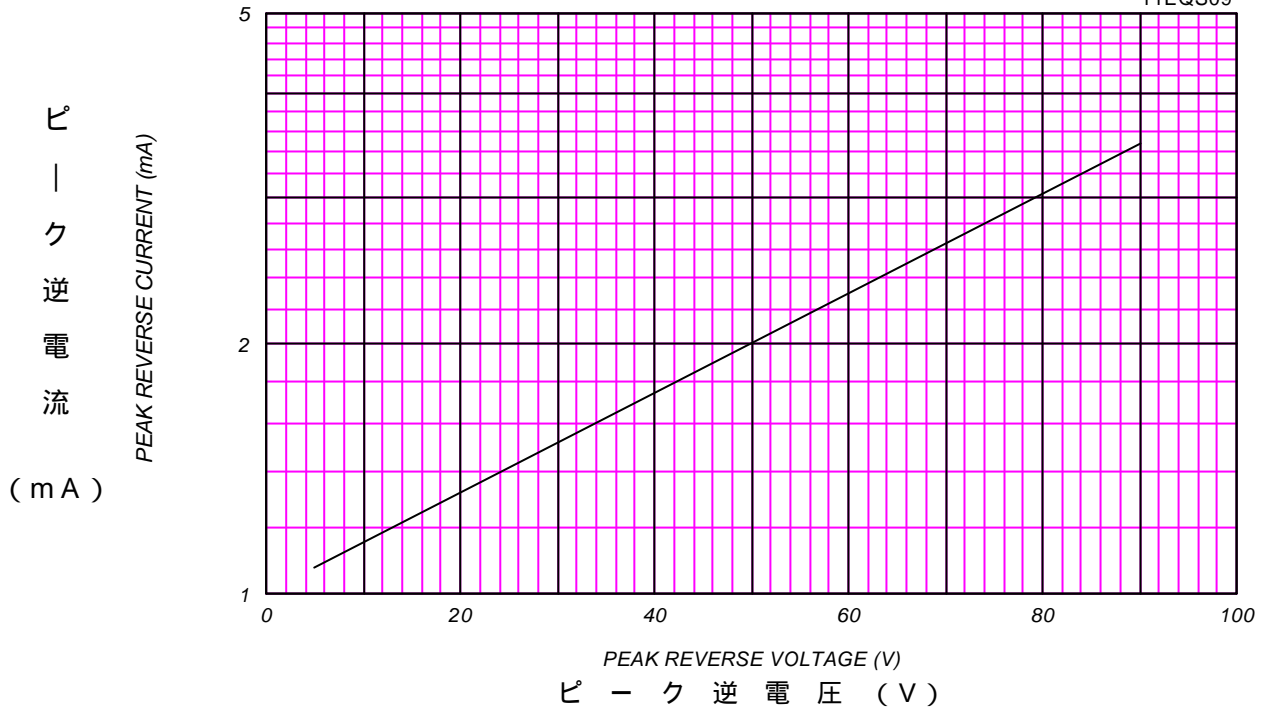
平均順電力損失特性
AVERAGE FORWARD POWER DISSIPATION



ピーク逆電流 - ピーク逆電圧特性
 PEAK REVERSE CURRENT VS. PEAK REVERSE VOLTAGE

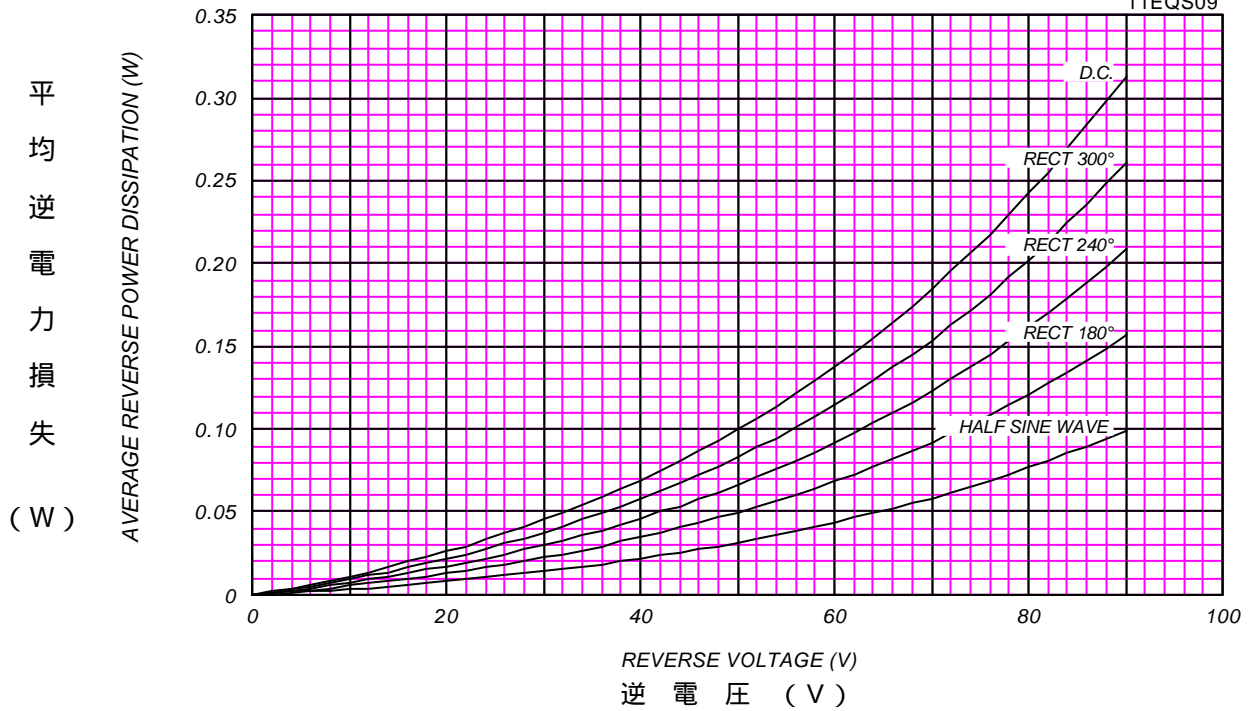
T_j = 150 °C

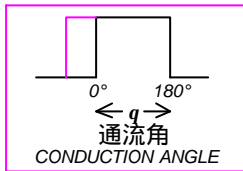
11EQS09



平均逆電力損失
 AVERAGE REVERSE POWER DISSIPATION

11EQS09

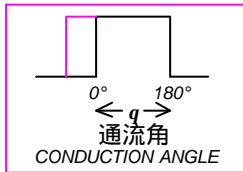
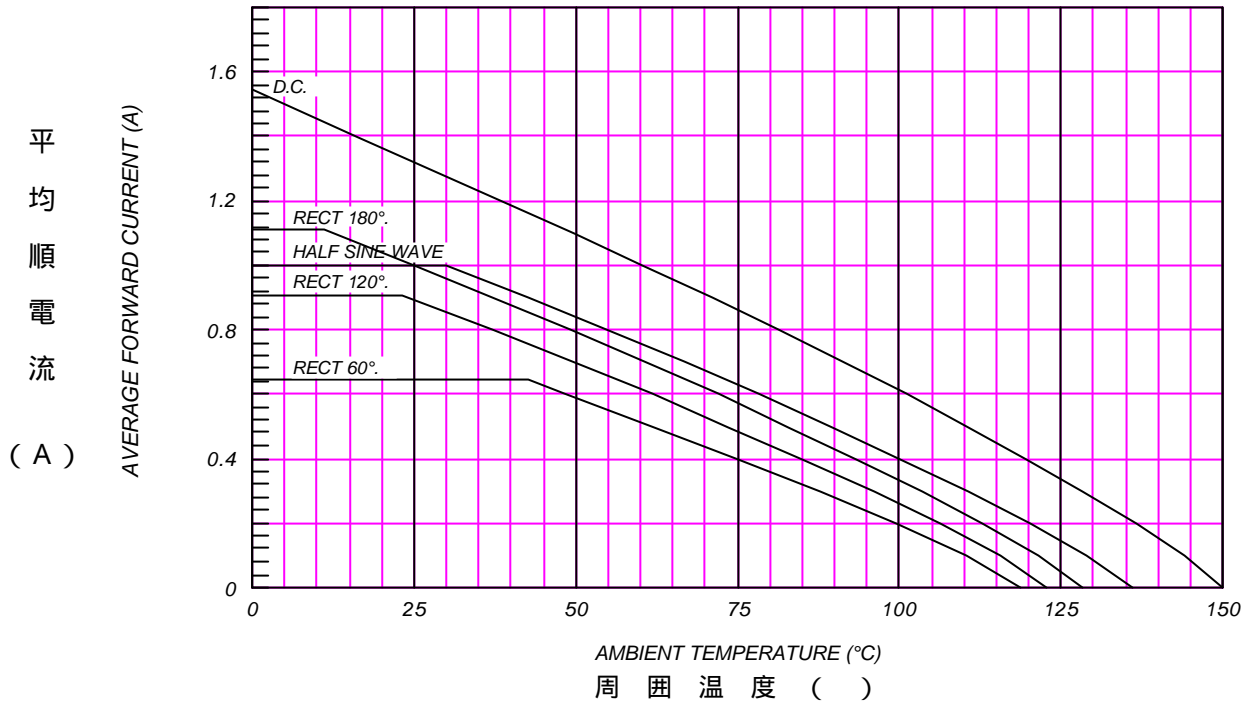




平均順電流 - 周圍溫度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

Without Fin or P.C. Board, $V_{RM}=90V$

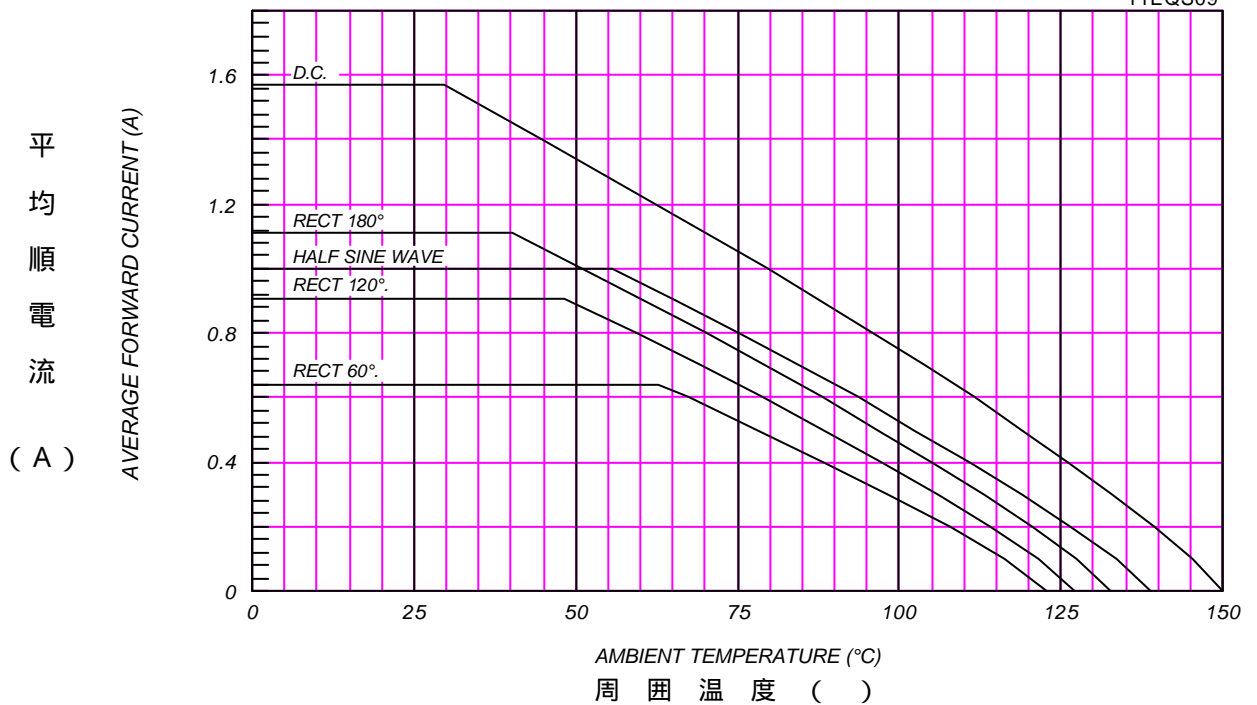
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平均順電流 - 周圍溫度定格
AVERAGE FORWARD CURRENT VS. AMBIENT TEMPERATURE

P.C. Board mounted (L=3mm, Print Land=5x5mm), $V_{RM}=90V$

11EQS09



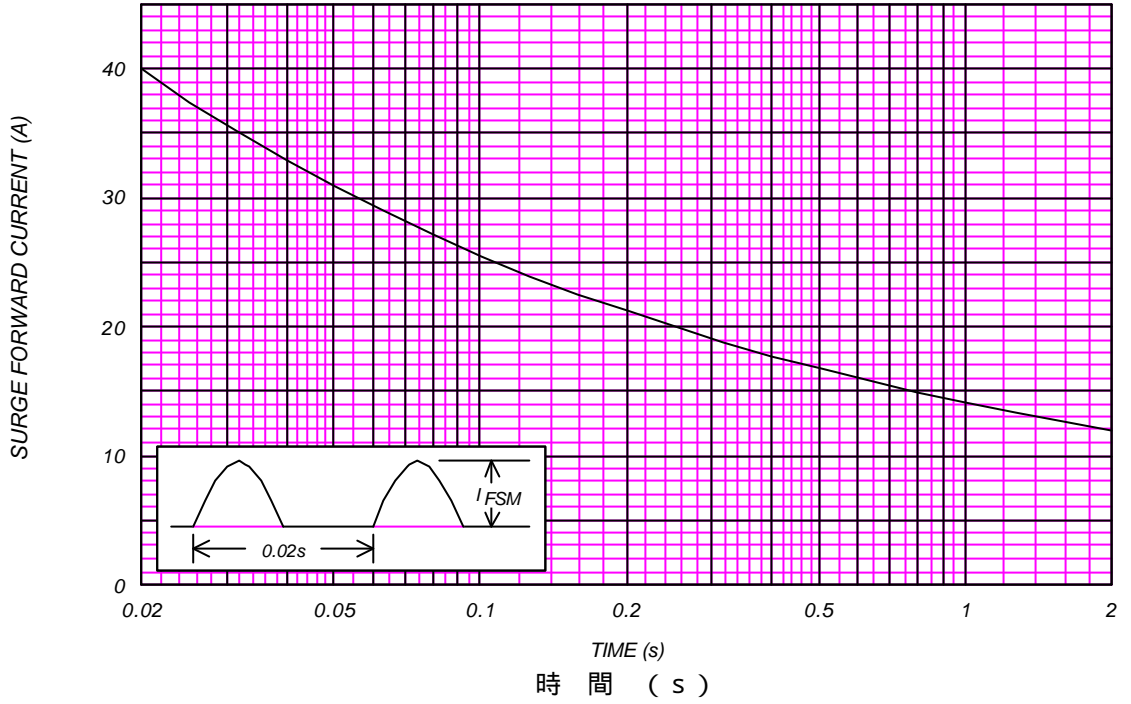
サージ順電流定格 SURGE CURRENT RATINGS

f=50Hz, Half Sine Wave, Non-Repetitive, No Load

11EQS09

サー
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電
流

(A)



接合容量特性 JUNCTION CAPACITANCE VS. REVERSE VOLTAGE

$T_j = 25^\circ\text{C}$, $V_m = 20\text{mV}_{\text{RMS}}$, $f = 100\text{kHz}$, Typical Value

11EQS09

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量

(pF)

